Ellipses WS Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Per \_\_\_\_\_ Date \_\_\_\_

1-4, Find the equation of the ellipse with the given information.

1. Vertices: (-7,-3), (13, -3) 2. Vertices: (4,3), (4,-9)

Foci: (-5, -3), (11, -3) length of minor axis is 8

3. Major axis: (-13, 2) to (1,2) 4. co-vertices: (-13, 7), (-3, 7)

Minor axis: (-6,4) to (-6, 0) length of major axis is 16

5-8, Determine if the conic is a parabola, circle or an ellipse. Put the equation into standard form. Find the following for each conic; parabola: vertex, focus, directrix, and LR points, circle: center, radius and ellipse: center, foci, vertices, and co-vertices .

5. x2 + y2 + 6x – 4y – 3 =0 6. 4x2 + 8y2 – 8x + 48y + 44 = 0

7. y2 – 12x + 18y + 153 = 0 8. 5x2 + 2y2 + 30x – 16y + 27 = 0